

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RXA

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAPplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	CAPplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	29	JAN 02	STN pricing information for 2008 now available
NEWS	30	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	31	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	32	JAN 28	MARPAT searching enhanced
NEWS	33	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	34	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment

NEWS 35 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements  
NEWS 36 FEB 08 STN Express, Version 8.3, now available

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 24 JANUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:21:11 ON 11 FEB 2008

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:21:23 ON 11 FEB 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 10 FEB 2008 HIGHEST RN 1002565-97-0  
DICTIONARY FILE UPDATES: 10 FEB 2008 HIGHEST RN 1002565-97-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

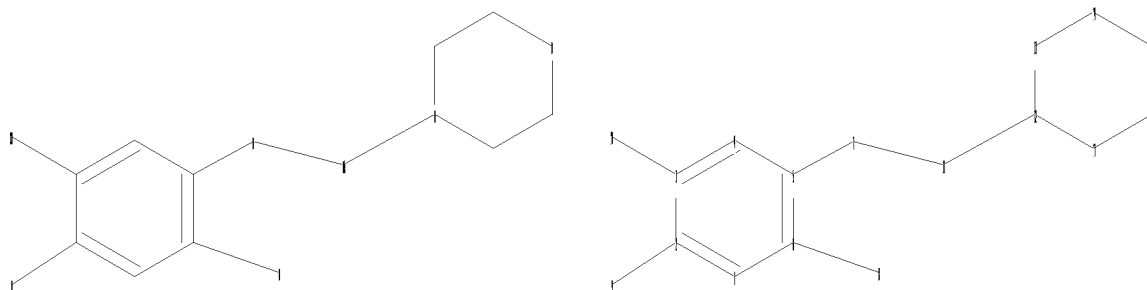
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\105274611.str



```

chain nodes :
7 8 9 10 11
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17
chain bonds :
2-9 3-10 5-7 6-8 7-11 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17
exact/norm bonds :
2-9 5-7 6-8 7-11 11-12 12-13 12-17 13-14 14-15 15-16 16-17
exact bonds :
3-10
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

```

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

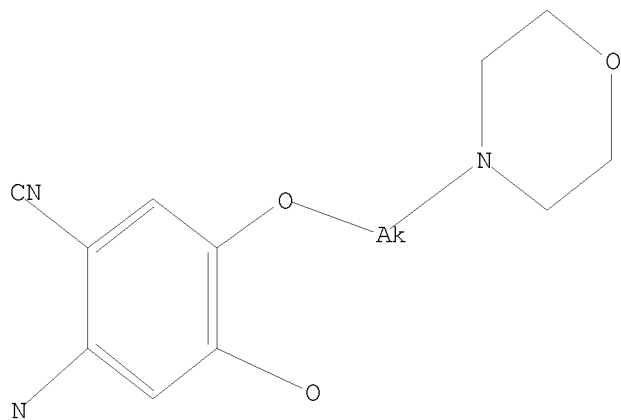
```

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 10:21:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -          1 TO ITERATE

100.0% PROCESSED          1 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH  **COMPLETE**
PROJECTED ITERATIONS:   1 TO      80
PROJECTED ANSWERS:      0 TO      0
```

```
L2          0 SEA SSS SAM L1
```

```
=> s l1 full
FULL SEARCH INITIATED 10:21:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        107 TO ITERATE

100.0% PROCESSED        107 ITERATIONS          4 ANSWERS
SEARCH TIME: 00.00.01
```

```
L3          4 SEA SSS FUL L1
```

```
=> s l3 and caplus/lc
          56036497 CAPLUS/LC
L4          4 L3 AND CAPLUS/LC
```

```
=> fil caplus
COST IN U.S. DOLLARS          SINCE FILE          TOTAL
                                ENTRY          SESSION
FULL ESTIMATED COST          183.51          183.72
```

```
FILE 'CAPLUS' ENTERED AT 10:21:48 ON 11 FEB 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)
```

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

```
FILE COVERS 1907 - 11 Feb 2008  VOL 148 ISS 7
FILE LAST UPDATED: 10 Feb 2008  (20080210/ED)
```

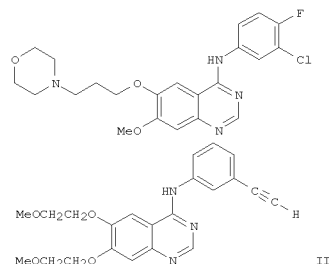
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s l4
L5          6 L4
```

```
=> d ibib abs hitstr 1-6
```

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:810510 CAPLUS  
 DOCUMENT NUMBER: 147:385925  
 TITLE: Convergent Approach for Commercial Synthesis of Gefitinib and Erlotinib  
 AUTHOR(S): Chandregowda, Venkateshappa; Rao, Gudapati Venkateswara; Reddy, Goukanapalli Chandrasekara  
 CORPORATE SOURCE: Vittal Malliya Scientific Research Foundation, Bangalore, 560004, India  
 SOURCE: Organic Process Research & Development (2007), 11(5), 813-816  
 CODEN: OPRDFK; ISSN: 1083-6160  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

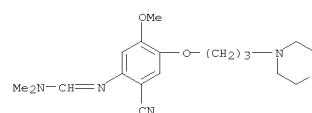


AB An efficient, economical and large-scale convergent synthesis of epidermal growth factor receptor tyrosine kinase inhibitors gefitinib (I, Iressa) and erlotinib (II, Tarceva), which are approved by the U.S. FDA for the treatment of non-small-cell lung cancer, is described. The formation of 4-anilinoquinazolines was achieved in a simple one-pot reaction of suitable formamide intermediates and substituted anilines involving Dimroth rearrangement, thereby avoiding the need to make quinazolin-4(3H)-one intermediates which require large exptl. inputs. Using this process, I was prepared with overall yield of 66% from 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitrobenzonitrile and II in 63% yield from 4,5-bis(2-methoxyethoxy)-2-nitrobenzonitrile on a multigram scale.

IT 950596-57-3P  
 RL: IMP (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (heterocyclization of a [(morpholinopropoxy)phenyl]formamide with chlorofluoroaniline in the large-scale com. preparation of gefitinib and erlotinib lung cancer treatment drugs)

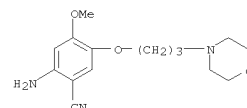
L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS  
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 RN 950596-57-3 CAPLUS  
 CN Methanimidamide, N'-[2-cyano-5-methoxy-4-[3-(4-morpholinyl)propoxy]phenyl]-N,N-dimethyl- (CA INDEX NAME)



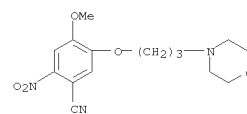
IT 675126-27-9P  
 RL: IMP (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (reaction of a (morpholinopropoxy)aminobenzonitrile with DMF di-Me acetal in the large-scale com. preparation of gefitinib and erlotinib lung cancer treatment drugs)

RN 675126-27-9 CAPLUS  
 CN Benzonitrile, 2-amino-4-methoxy-5-[3-(4-morpholinyl)propoxy]- (CA INDEX NAME)



IT 675126-26-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reduction of a (morpholinopropoxy)nitrobenzonitrile in the large-scale com. preparation of gefitinib and erlotinib lung cancer treatment drugs)

RN 675126-26-8 CAPLUS  
 CN Benzonitrile, 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitro- (CA INDEX NAME)



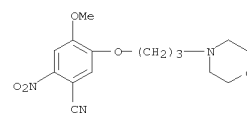
L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:191189 CAPLUS  
 DOCUMENT NUMBER: 146:421938  
 TITLE: One-pot conversion of 2-nitrobenzonitriles to quinazolin-4(3H)-ones and synthesis of gefitinib and erlotinib hydrochloride  
 AUTHOR(S): Chandregowda, Venkateshappa; Rao, Gudapati Venkateswara; Reddy, Goukanapalli Chandrasekara  
 CORPORATE SOURCE: Vittal Malliya Scientific Research Foundation, Bangalore, 560004, India  
 SOURCE: Heterocycles (2007), 71(1), 39-48  
 CODEN: HETCYM; ISSN: 0385-5414  
 PUBLISHER: Japan Institute of Heterocyclic Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 146:421938  
 GI



AB A simple and efficient one-pot conversion of 2-nitrobenzonitriles to quinazolin-4(3H)-ones involving reduction, formylation, hydrolysis and cyclization is reported. E.g., quinazolin-4(3H)-one derivative I was prepared with 85% yield by reacting the corresponding 2-nitrobenzonitrile II with hydrazine using FeCl3 in MeOH/H2O followed by treating the reaction mixture with formic acid and HCl. These quinazolinones have been used for making in economical way the anticancer drug mols. gefitinib (Iressa) and erlotinib HCl (Tarceva).

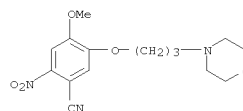
IT 675126-26-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (one-pot conversion of 2-nitrobenzonitriles to quinazolin-4(3H)-ones via a nitrile reduction/formylation/hydrolysis/cyclocondensation reaction sequence with application to the synthesis of gefitinib and erlotinib hydrochloride)

RN 675126-26-8 CAPLUS  
 CN Benzonitrile, 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitro- (CA INDEX NAME)

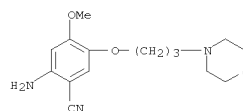


L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2006:625376 CAPLUS  
DOCUMENT NUMBER: 145:249168  
TITLE: Synthesis of [<sup>11</sup>C]iressa as a new potential PET  
cancer  
imaging agent for epidermal growth factor receptor  
tyrosine kinase  
AUTHOR(S): Wang, Ji-Quan; Gao, Mingzhang; Miller, Kathy D.;  
Sledge, George W.; Zheng, Qi-Huang  
CORPORATE SOURCE: Department of Radiology, Indiana University School of  
Medicine, Indianapolis, IN, 46202, USA  
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),  
16(15), 4102-4106  
CODEN: BMCLE8; ISSN: 0960-894X  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 145:249168  
AB Iressa (gefitinib) is an orally active inhibitor of epidermal growth  
factor receptor tyrosine kinase (EGFR-TK) involved in cell signal  
transduction processes critical to proliferation, apoptosis, repair, and  
angiogenesis of cancer cells. [<sup>11</sup>C]iressa was first designed and  
synthesized as a new potential positron emission tomog. (PET) cancer  
imaging agent for EGFR-TK in 30-40% radiochem. yield with 4.0-6.0  
Ci/μmol specific activity at end of bombardment (EOB).  
IT 675126-26-8P 675126-27-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of carbon-11 iressa as PET cancer imaging agent for  
epidermal  
growth factor receptor tyrosine kinase)  
RN 675126-26-8 CAPLUS  
CN Benzonitrile, 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitro- (CA INDEX  
NAME)



RN 675126-27-9 CAPLUS  
CN Benzonitrile, 2-amino-4-methoxy-5-[3-(4-morpholinyl)propoxy]- (CA INDEX  
NAME)

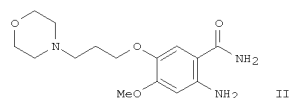
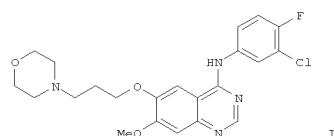


L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:696894 CAPLUS  
DOCUMENT NUMBER: 143:194029  
TITLE: An improved process for preparation of gefitinib,  
useful as antitumor agent  
INVENTOR(S): Jyothi Prasad, Ramanadham; Pulla Reddy, Muddasani;  
Nageshwara Rao, Bollepalli; Venkaiah Chowdary,  
Nannapaneni  
PATENT ASSIGNEE(S): Natco Pharma Limited, India  
SOURCE: PCT Int. Appl., 53 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2005070909	A1	20050804	WO 2004-IN223	20040727
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
IN 2004CH00046	A	20060526	IN 2004-CH46	20040122
PRIORITY APPLN. INFO.:			IN 2004-CH46	A 20040122
OTHER SOURCE(S):		CASREACT 143:194029		
GI				

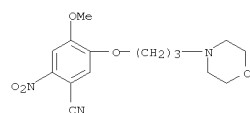
L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



AB The invention relates to an improved preparation of gefitinib (I), useful as antitumor agent (no biol. data). For instance, gefitinib was prepared via heterocyclization of aminobenzamide derivative II with formic acid, chlorination of the obtained 3,4-dihydroquinazoline-4-one derivative, and amination of the obtained 4-chloroquinazoline derivative by 3-chloro-4-fluoroaniline.

IT 675126-26-8P  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (improved process for preparation of gefitinib useful as antitumor agent)

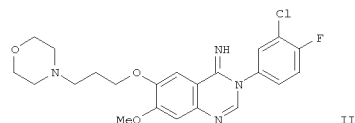
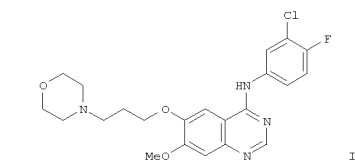
RN 675126-26-8 CAPLUS  
 CN Benzonitrile, 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitro- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

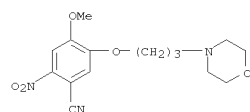
L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



AB The invention relates to an improved process for manufacture of gefitinib (I) via rearrangement reaction of quinazoline derivative II. Gefitinib was prepared via heterocyclization of N,N'-bis-(3-chloro-4-fluorophenyl)formamidine and 2-amino-4-methoxy-5-(3-morpholinopropoxy)benzonitrile and subsequent rearrangement of the obtained iminoquinazoline derivative II.

IT 675126-26-8P 675126-27-9P 847862-72-0P  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (process of manufacturing gefitinib useful as EGFR inhibitor)

RN 675126-26-8 CAPLUS  
 CN Benzonitrile, 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitro- (CA INDEX NAME)



RN 675126-27-9 CAPLUS  
 CN Benzonitrile, 2-amino-4-methoxy-5-[3-(4-morpholinyl)propoxy]- (CA INDEX NAME)

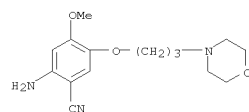
L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:238968 CAPLUS  
 DOCUMENT NUMBER: 142:298128  
 TITLE: A process of manufacturing gefitinib via rearrangement of iminoquinazoline derivative  
 INVENTOR(S): Gilday, John Peter; Welham, Matthew James  
 PATENT ASSIGNEE(S): AstraZeneca AB, Swed.; AstraZeneca UK Limited  
 SOURCE: PCT Int. Appl., 29 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005023783	A1	20050317	WO 2004-GB3720	20040901
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

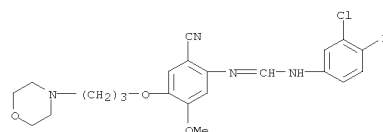
PRIORITY APPLN. INFO.: GB 2003-20793 A 20030905

OTHER SOURCE(S): CASREACT 142:298128  
 GI

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 847862-72-0 CAPLUS  
 CN Methanimidamide, N-(3-chloro-4-fluorophenyl)-N'-[2-cyano-5-methoxy-4-[3-(4-morpholinyl)propoxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

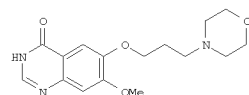
ACCESSION NUMBER: 2004:252492 CAPLUS  
DOCUMENT NUMBER: 140:287403

TITLE: Preparation of 4-(3'-chloro-4'-fluoroanilino)-7-methoxy-6-(3-morpholinopropoxy)quinazoline  
INVENTOR(S): Gilday, John Peter; Moody, David  
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited  
SOURCE: PCT Int. Appl., 32 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004024703	A1	20040325	WO 2003-GB3923	20030909
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2498122	A1	20040325	CA 2003-2498122	20030909
AU 2003263348	A1	20040430	AU 2003-263348	20030909
AU 2003263348	B2	20071011		
EP 1546119	A1	20050629	EP 2003-795077	20030909
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003014238	A	20050726	BR 2003-14238	20030909
CN 1681796	A	20051012	CN 2003-821550	20030909
JP 2006508922	T	20060316	JP 2004-535657	20030909
NZ 538552	A	20070223	NZ 2003-538552	20030909
NO 2005001104	A	20050601	NO 2005-1104	20050301
ZA 2005001892	A	20050908	ZA 2005-1892	20050304
MX 2005PA02601	A	20050505	MX 2005-PA2601	20050308
US 2006003999	A1	20060105	US 2005-527461	20050311
IN 2007DN07004	A	20070928	IN 2007-DN7004	20070910
PRIORITY APPLN. INFO.:			GB 2002-21245	A 20020913
			WO 2003-GB3923	W 20030909
			IN 2005-DN871	A3 20050304

OTHER SOURCE(S): CASREACT 140:287403; MARPAT 140:287403  
GI

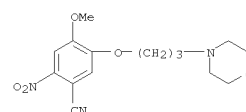


III

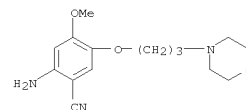
L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

AB The invention relates to chemical processes and intermediates useful in the manufacture of the title quinazoline (I). Thus, reacting 4-methoxy-5-(3-morpholinopropoxy)-2-nitrobenzonitrile with sodium dithionite in water gave 2-amino-4-methoxy-5-(3-morpholinopropoxy)benzonitrile (II). II was then converted to the benzamide; the benzamide was condensed with formamide to give quinazolinone III. III was treated with phosphorus oxychloride to give 4-chloro-7-methoxy-6-(3-morpholinopropoxy)quinazoline which alkylated 3-chloro-4-fluoroaniline to give I. The synthesis of II is also represented.

IT 675126-26-8P, 4-Methoxy-5-(3-morpholinopropoxy)-2-nitrobenzonitrile 675126-27-9P, 2-Amino-4-methoxy-5-(3-morpholinopropoxy)benzonitrile  
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 4-(3'-chloro-4'-fluoroanilino)-7-methoxy-6-(3-morpholinopropoxy)quinazoline)  
RN 675126-26-8 CAPLUS  
CN Benzonitrile, 4-methoxy-5-[3-(4-morpholinyl)propoxy]-2-nitro- (CA INDEX NAME)



RN 675126-27-9 CAPLUS  
CN Benzonitrile, 2-amino-4-methoxy-5-[3-(4-morpholinyl)propoxy]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

33.66

217.38

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.80

-4.80

STN INTERNATIONAL LOGOFF AT 10:22:53 ON 11 FEB 2008